

Work Order ID 144587

April 21, 2016 12:51:41 PM

144587

Page 1

Item ID: D3574-1

Accept

N900040100Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: Cabin Floor Protector

Start Date: 4/22/2016 Start Qty: 1.00

Required Date: 4/27/2016 Req'd Qty: 1.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan: SKDate: 20160421

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3574	Rev B								
100	FLOW WATER JET	0.00							
100									
Waterjet	Memo	0.54							
FLOW CNC Waterjet	1-Cut as per Dwg D3574								
	Dwg Rev: <u>B</u>								
	Prog Rev: <u>B</u>								
	2- Deburr								
110	QC2- Inspect parts off machine FAI/FAIB	0.00							
110									
QC	Memo	0.01							
Quality Control									

(4)

De 16/04/25

(4)

De 16/04/25

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Work Order ID 144587

April 21, 2016 12:51:41 PM

144587

Page 2

Item ID: D3574-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Item Name: Cabin Floor Protector

Stop

NS2

Start Date: 4/22/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 4/27/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run

Start

NR1

QC:

Date:

SPC (Y/N):

Date:

Stop

NR2

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

120

QC8- Inspect parts - second check

0.00

120

QC

Memo

0.02

Quality Control

(4)

DAS
38
9-89

APR 26 2016

130

Small Fab

0.00

130

Small Fab

Memo

0.00

Small Fab

Debur if necessary.

DAS
38
9-89

140

QC5- Inspect part completeness to step on W/O

0.00

140

QC

Memo

0.02

Quality Control

DAS
38
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	

Root Cause				FAULT CATEGORY			
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : ☐			
Misidentified ☐		Past Due ☐					

Work Order ID 144587

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144587

Page 3

Item ID: D3574-1

Accept

N900040100

Setup Start

NS1

Revision ID:

Stop

NS2

Item Name: Cabin Floor Protector

Start Date: 4/22/2016 Start Qty: 1.00

1

Cust Item ID:

Required Date: 4/27/2016 Req'd Qty: 1.00

1

Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start

NR1

Stop

NR2

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
150	Identify as per dwg & Stock Location: _____	0.00							
150									
Packaging	Memo	0.01							
Packaging									
160	QC21- Final Inspection - Work Order Release	0.00							
160									
QC	Memo	0.10							
Quality Control									

4 Smb
K6/4/25

MLJ APR 26 2016

MLJ APR 26 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

Picklist Print

April 21, 2016 12:51:47 PM

Page 1

Work Order ID: 144587

144587

Parent Item: D3574-1

D3574-1

Parent Item Name: Cabin Floor Protector

Start Date: 4/22/2016

Required Date: 4/27/2016

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev :A New Issue 07-01-22 EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MLEXS.125-F60029-04		Purchased		No			sf	2,157.693		25.35294			

MI FXS 125-F60029-04

04/16/04/25

GE PLASTICS LEXAN SHEET

Location

Loc Qty

Loc Code

MAT018

2157.693

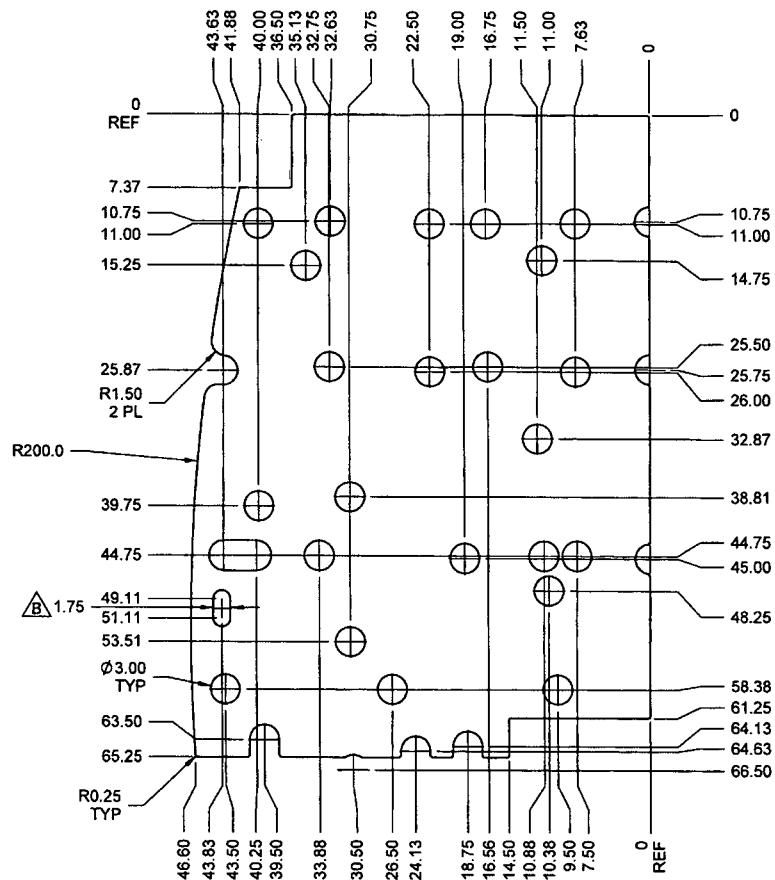
m133111

353.893

m134389

1803.8

88

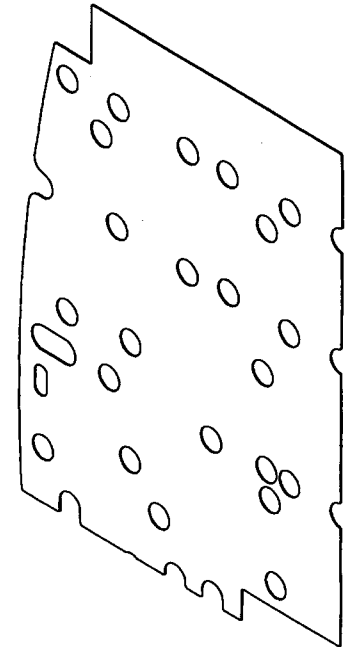


D3574-1 CABIN FLOOR PROTECTOR

NOTES:

- 1) MATERIAL: F60029 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE), 0.125 THICK, TEXTURED SIDE UP, (REF DART SPEC MLEXS.125-F60029-04)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3574-1" AND B/N USING FINE POINT PERMANENT INK MARKER ON SMOOTH SIDE OF PART
- 7) WEIGHT: 14.30 lbs
- 8) CHECK PER TEMPLATE DT8961

0.125
REF



20160421

SIA
144587

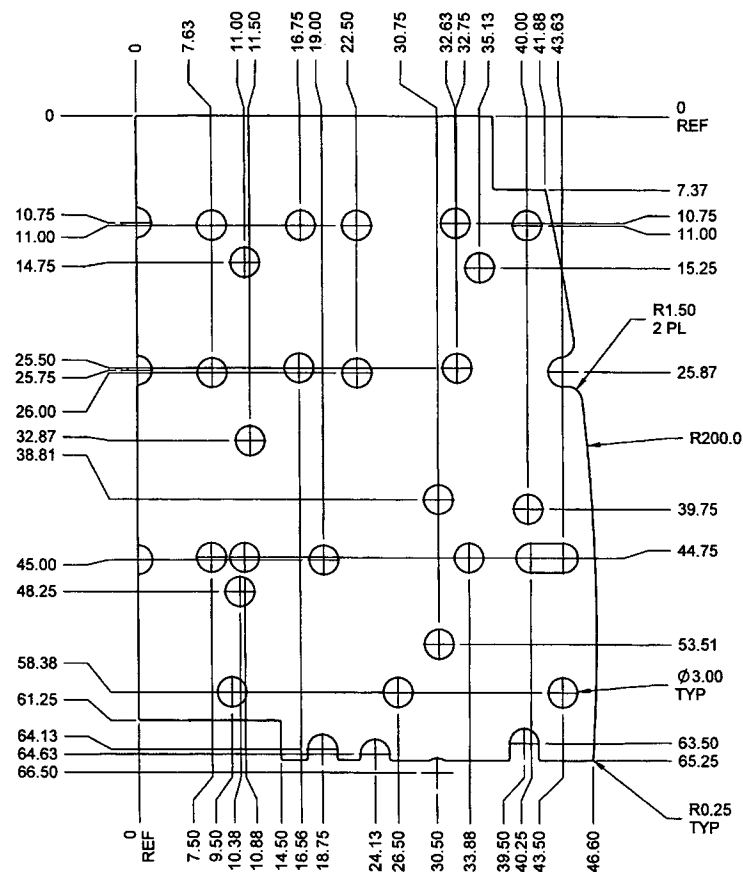
RELEASED
01/04/07

B	ADD CUT-OUT TO -1/5 FOR WEIGHT AND BALANCE DATA PLATE ZN B7-1, B8-5; -2 NOW SHOWN ON SHEET 2	09.03.25
A	NEW ISSUE	CB 07.06.08
REV.	DESCRIPTION	BY DATE
DESIGN		
DRAWN		
CHECKED		
MFG. APPR.		
APPROVED		
DE APPR.		
DATE	09.03.25	

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. **D3574** REV. B
SHEET 1 OF 6
TITLE **CABIN FLOOR PROTECTOR** SCALE NTS

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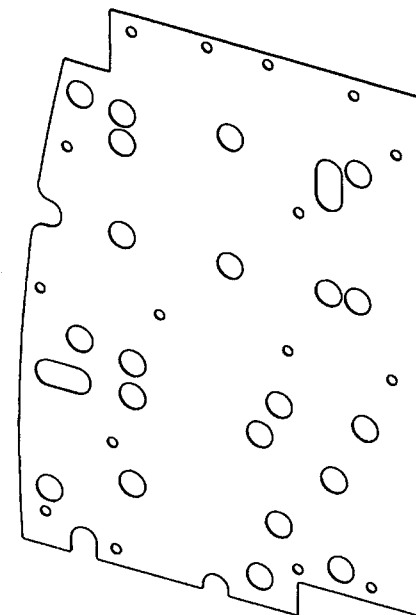
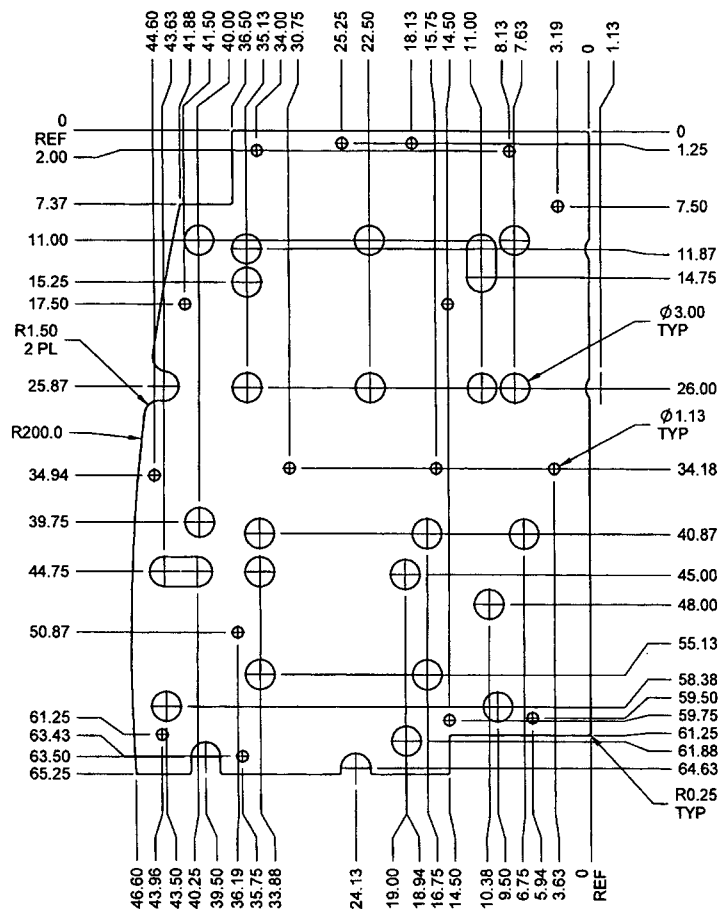
D3574-2 CABIN FLOOR PROTECTOR

NOTES:

- 1) MATERIAL: F60029 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE), 0.125 THICK, TEXTURED SIDE UP, (REF DART SPEC MLEXS.125-F60029-04)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3574-2" AND B/N USING FINE POINT PERMANENT INK MARKER ON SMOOTH SIDE OF PART
- 7) WEIGHT: 14.30 lbs
- 8) CHECK PER TEMPLATE DT8961

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3574	SHEET 2 OF 6
APPROVED		TITLE	SCALE
DE APPR.		CABIN FLOOR PROTECTOR	NTS
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RELEASED
09/04/07



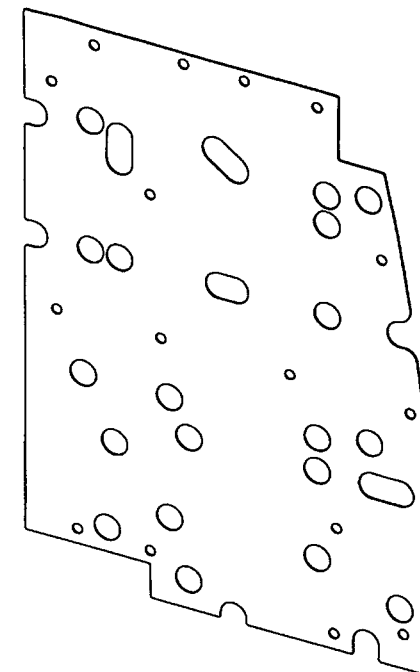
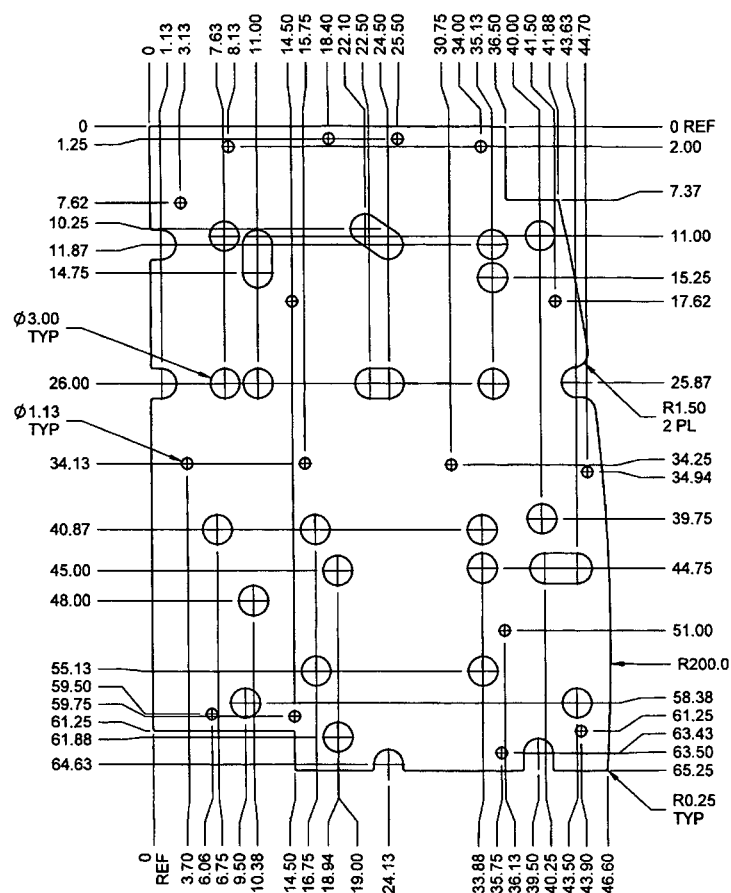
D3574-3 CABIN FLOOR PROTECTOR

NOTES:

- 1) MATERIAL: F60029 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE), 0.125 THICK, TEXTURED SIDE UP, (REF DART SPEC MLEXS.125-F60029-04)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3574-3" AND B/N USING FINE POINT PERMANENT INK MARKER ON SMOOTH SIDE OF PART
- 7) WEIGHT: 14.33 lbs
- 8) CHECK PER TEMPLATE DT8962

RELEASED
9/14/07 MJD

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3574	SHEET 3 OF 6
APPROVED		TITLE	SCALE
DE APPR.		CABIN FLOOR PROTECTOR	NTS
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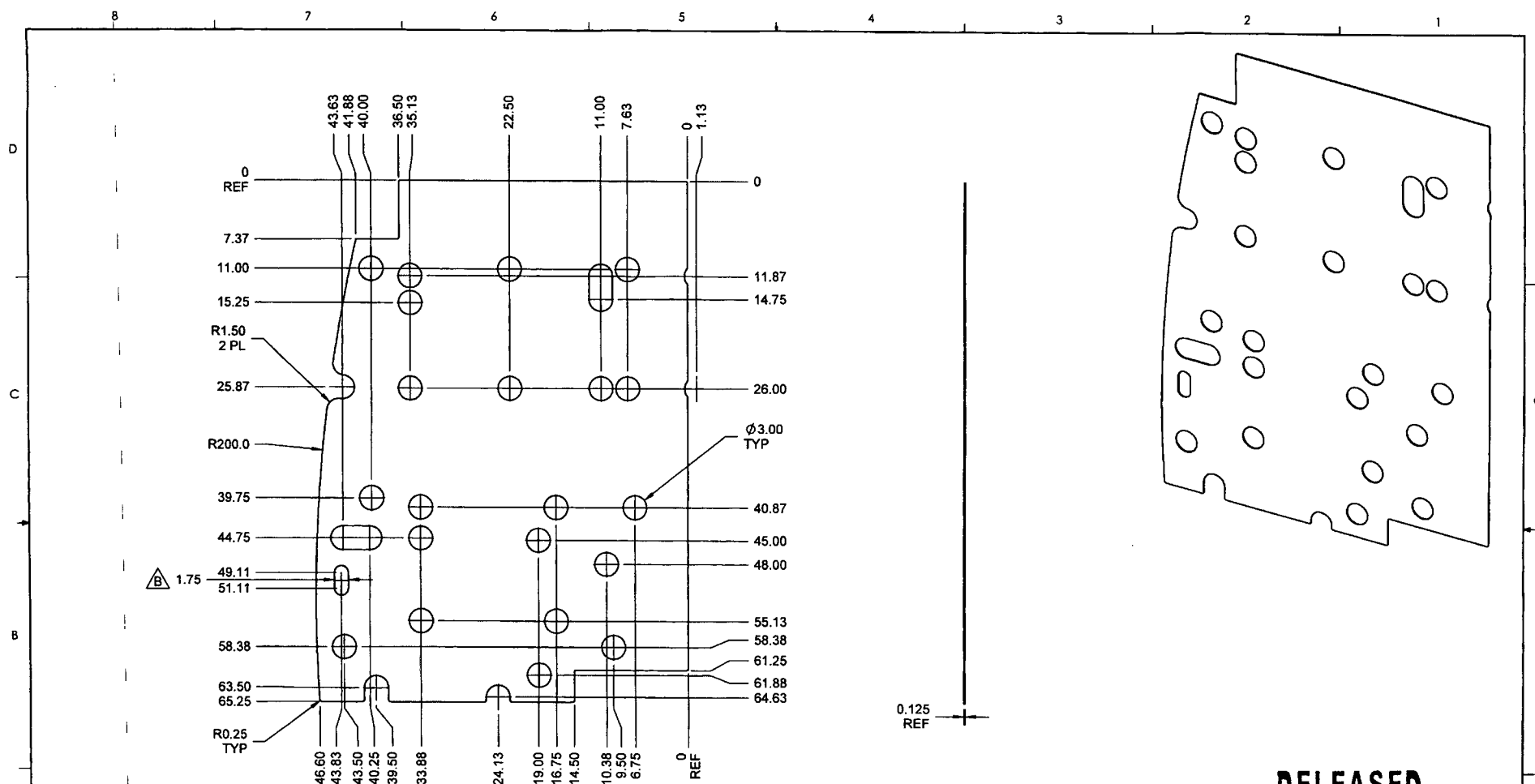
D3574-4 CABIN FLOOR PROTECTOR

NOTES:

- 1) MATERIAL: F60029 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE), 0.125 THICK, TEXTURED SIDE UP, (REF DART SPEC MLEXS.125-F60029-04)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3574-4" AND B/N USING FINE POINT PERMANENT INK MARKER ON SMOOTH SIDE OF PART
- 7) WEIGHT: 14.18 lbs
- 8) CHECK PER TEMPLATE DT8963

RELEASED
8/14/01 JWP

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3574	SHEET 4 OF 6
APPROVED		TITLE	SCALE
DE APPR.		CABIN FLOOR PROTECTOR	NTS
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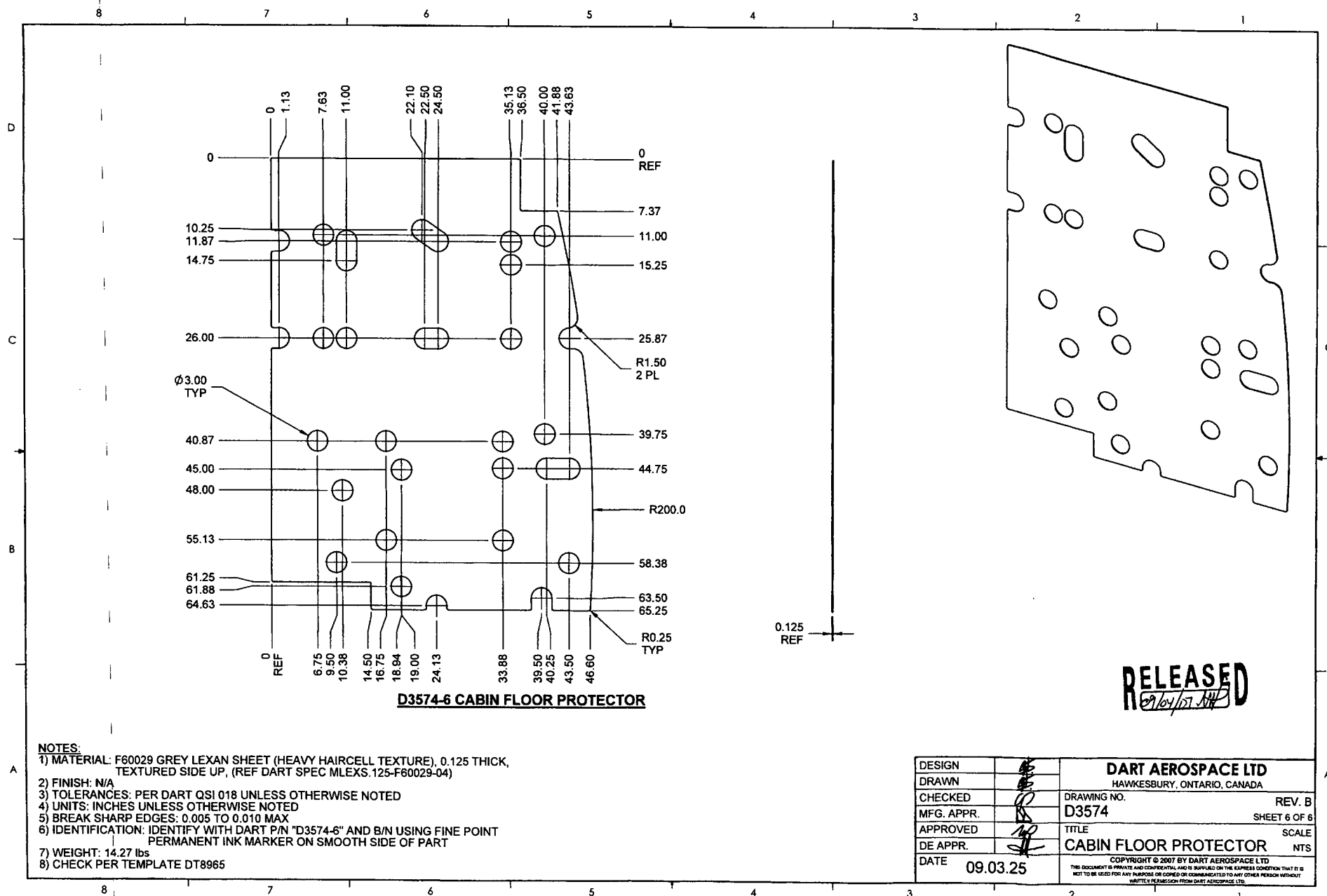


D3574-5 CABIN FLOOR PROTECTOR

NOTES:

- 1) MATERIAL: F60029 GREY LEXAN SHEET (HEAVY HAIRCELL TEXTURE), 0.125 THICK, TEXTURED SIDE UP, (REF DART SPEC MLEXS.125-F60029-04)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3574-5" AND B/N USING FINE POINT PERMANENT INK MARKER ON SMOOTH SIDE OF PART
- 7) WEIGHT: 14.38 lbs
- 8) CHECK PER TEMPLATE DT8964

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D3574	SHEET 5 OF 6
APPROVED		TITLE	SCALE
DE APPR.		CABIN FLOOR PROTECTOR	NTS
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DART AEROSPACE LTD		Work Order: 144587
Description: Cabin Floor Protector		Part Number: D3574-1
Inspection Dwg: D3574	Rev: B	Page 1 of 2

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø3.00	+0.006/-0.001					
7.37	+/-0.030					
10.75	+/-0.030					
11.00	+/-0.030					
15.25	+/-0.030					
25.87	+/-0.030					
39.75	+/-0.030					
44.75	+/-0.030					
49.11	+/-0.030					
51.11	+/-0.030					
53.51	+/-0.030					
63.50	+/-0.030					
65.25	+/-0.030					
10.75	+/-0.030					
11.06	+/-0.030					
14.75	+/-0.030					
25.50	+/-0.030					
25.75	+/-0.030					
26.00	+/-0.030					
32.87	+/-0.030					
38.81	+/-0.030					
44.75	+/-0.030					
45.00	+/-0.030					
48.25	+/-0.030					
58.38	+/-0.030					
61.25	+/-0.030					
64.13	+/-0.030					
64.63	+/-0.030					
66.50	+/-0.030					
7.50	+/-0.030					
9.50	+/-0.030					
10.38	+/-0.030					
10.88	+/-0.030					
14.50	+/-0.030					

DART AEROSPACE LTD		Work Order: 144583
Description: Cabin Floor Protector		Part Number: D3574-1
Inspection Dwg: D3574 Rev: B		Page 2 of 2

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
16.56	+/-0.030	16.56	/		V=Dr 02	
18.75	+/-0.030	18.75	/		Tape	
24.13	+/-0.030	24.13	/			
26.50	+/-0.030	26.50	/			
30.50	+/-0.030	30.50	/			
33.88	+/-0.030	33.88	/			
39.50	+/-0.030	39.50	/			
40.25	+/-0.030	40.25	/			
43.50	+/-0.030	43.50	/			
43.83	+/-0.030	43.83	/			
46.60	+/-0.030	46.60	/			
7.63	+/-0.030	7.63	/			
11.00	+/-0.030	11.00	/			
11.50	+/-0.030	11.50	/			
16.75	+/-0.030	16.75	/			
19.00	+/-0.030	19.00	/			
22.50	+/-0.030	22.50	/			
30.75	+/-0.030	30.75	/			
32.63	+/-0.030	32.63	/			
32.75	+/-0.030	32.75	/			
35.13	+/-0.030	35.13	/			
36.50	+/-0.030	36.50	/			
40.00	+/-0.030	40.00	/			
41.88	+/-0.030	41.88	/			
43.63	+/-0.030	43.63	/			
0.125	+/-0.010					

Measured by: DC	Audited by: DAS 38	Prototype Approval:	N/A
Date: 16/04/25	Date: APR 26 2016	Date:	N/A

Rev	Date	Change	Revised by	Approved
A	08.02.28	New Issue	KJ/DD	
B	08.07.31	47.75 dimension removed	KJ/DD	
C	09.05.15	Dimensions updated per Dwg Rev B	KJ	